

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>176/61623</b>
INTERNATIONAL APPLICATION NO. <b>PCT/US2004/031866</b>		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/584886</b>
INTERNATIONAL FILING DATE <b>29 September 2004 (29.09.2004)</b>	PRIORITY DATE CLAIMED <b>29 September 2003 (29.09.2003)</b>	
TITLE OF INVENTION METHODS OF MODULATING CELL CYCLE AND CELL SIGNALING PATHWAYS USING <b>BILIVERDIN REDUCTASE</b>		
APPLICANT(S) FOR DO/EO/US <b>MAINES, Mahin D.</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold;">10/584886</div>	INTERNATIONAL APPLICATION NO. PCT/US2004/031866	ATTORNEY'S DOCKET NUMBER 176/61623
20. Other items or information: UNSIGNED Combined Declaration and Power of Attorney; Petition For Revival Of An International Application For Patent Designating The U.S. Abandoned Unintentionally Under 37 CFR 1.137(b); Check for Petition Fee		
The following fees have been submitted		<b>CALCULATIONS</b> <b>PTO USE ONLY</b>
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300		\$ 300.00
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200		\$ 200.00
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500		\$ 100.00
<b>TOTAL OF 21, 22 and 23 =</b>		600.00
<input checked="" type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(d) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)
122 - 100 =	22 / 50 =	1
		x \$250
		\$ 250.00
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$ 130.00
CLAIMS	NUMBER FILED	NUMBER EXTRA
Total claims	29 - 20 =	9
		x \$ 50
		\$ 450.00
Independent claims	2 - 3 =	0
		x \$200
		\$ 0.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ \$360
		\$ 0.00
<b>TOTAL OF ABOVE CALCULATIONS =</b>		\$ 1,430.00
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		715.00
<b>SUBTOTAL =</b>		\$ 715.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$ 0.00
<b>TOTAL NATIONAL FEE =</b>		\$ 715.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		\$ 0.00
<b>TOTAL FEES ENCLOSED =</b>		\$ 715.00
		Amount to be refunded \$
		Amount to be charged \$

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AP20 Rec'd PCT/PTO 29 JUN 2006

- a. ☒ A check in the amount of \$ 715.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1138. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Edwin V. Merkel  
Nixon Peabody LLP  
Clinton Square, P.O. Box 31051  
Rochester, NY 14603-1051  
United States of America



SIGNATURE

Edwin V. Merkel

NAME

40,087

REGISTRATION NUMBER

10/584886

AP20 Res'd PCT/PTO 29 JUN 2006

**EXPRESS MAIL CERTIFICATE**

DOCKET NO.: 176/61623 (1208)

APPLICANT: Mahin D. Maines

TITLE: METHODS OF MODULATING CELL CYCLE AND CELL SIGNALING  
PATHWAYS USING BILIVERDIN REDUCTASE

Certificate is attached to the Transmittal Letter (3 pages)  
to the U.S. Designated/Elected Office (DO/EO/US) of the above-named  
application.

"EXPRESS MAIL" NUMBER: EV685740783US

DATE OF DEPOSIT: June 29, 2006

I hereby certify that this paper or fee is being  
deposited with the United States Postal Service "Express Mail Post  
Office to Addressee" service under 37 CFR 1.10 on the date  
indicated above and is addressed to Mail Stop: PCT, Commissioner for  
Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Patricia Knisley  
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